

SEQUENCE LISTING

| <110> | | JULIUS, I FILIPP, I | Michael H. Dominik | | | | |
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| tatgct | gaca | caatcaaggc | tctgcgcgtt | cggcgactca | agctgggcgc | tgcacaggtt | 300 |
| cctgct | cagc | ttctggtcgc | cgttctgcgc | gcgctcgggt | actctcgtct | caaggaactg | 360 |
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| cctgcg | gctca | ccaccctcag | tctgcgtaac | gtatcgtgga | caacaggagg | tgcctggctc | 480 |
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| | ` | 2/9 | | | |
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| TGGTCCAGCG CTTTCAATTG | TTTGGGGGCG | GCAGATGTGG | AATTGTACGG | CGGCGGCCGC | 180 |
| AGCCTGGAAT ACCTTCTAAA | GCGTGTGGAC | ACGGAAGCAG | ATCTGGGGCA | GTTCACTGAT | 240 |

| ATTATCAAGT | CTCTGTCCTT | AAAGCGGCTT | ACGGTGCGGG | CCGCGCGGAT | TCCTAGTCGG | 300 |
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| GCAGGCGCTC | CGAGTTGTGA | CTGGCCCAGT | CAGCTAAACT | CGCTCAATCT | GTCTTTCACT | 840 |
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| AAAGGAAATC | CCTTTTTGGA | CTCTGAATCC | CACTCGGAGA | AGTTTAACTC | TGGCGTAGTC | 1020 |
| ACCGCCGGAG | CTCCATCATC | CCAAGCAGTG | GCCTTGTCAG | GAACTCTGGC | TTTGCTCCTA | 1080 |
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Ala Val Gln Cys Met Val Ala Val Glu Val Glu Ile Ser Ala Gly Gly 50 55 60

Arg Ser Leu Glu Gln Phe Leu Lys Gly Ala Asp Thr Asn Pro Lys Gln 65 70 75 80

Tyr Ala Asp Thr Ile Lys Ala Leu Arg Val Arg Arg Leu Lys Leu Gly 85 90 95

Ala Ala Gln Val Pro Ala Gln Leu Leu Val Ala Val Leu Arg Ala Leu 100 105 110

Gly Tyr Ser Arg Leu Lys Glu Leu Thr Leu Glu Asp Leu Glu Val Thr 115 120 125 .

Gly Pro Thr Pro Pro Thr Pro Leu Glu Ala Ala Gly Pro Ala Leu Thr 130 135 140

4/9

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| Gly | Glu | Leu | Gln | Gln 165 | Trp | Leu | Lys | Pro | Gly 170 | Leu | Arg | Val | Leu | Asn 175 | Ile |
| Ala | Gln | Ala | His 180 | Ser | Leu | Ala | Phe | Pro 185 | Cys | Ala | Gly | Leu | Ser 190 | Thr | Phe |
| Glu | Ala | Leu 195 | Thr | Thr | Leu | Asp | Leu 200 | Ser | Asp | Asn | Pro | Ser 205 | Leu | Gly | Asp |
| Thr | Gly 210 | Leu | Met | Ala | Ala | Leu 215 | Cys | Pro | Asn | Lys | Phe 220 | Pro | Ala | Leu | Gln |
| Tyr 225 | Leu | Ala | Leu | Arg | Asn 230 | Ala | Gly | Met | Glu | Thr 235 | Pro | Ser | Gly | Val | Cys 240 |
| Ala | Ala | Leu | Ala | Ala 245 | Ala | Arg | Val | Gln | Pro 250 | Gln | Ser | Leu | Asp | Leu 255 | Ser |
| His | Asn | Ser | Leu 260 | Arg | Val | Thr | Ala | Pro 265 | Gly | Ala | Thr | Arg | Cys 270 | Val | Trp |
| Pro | Ser | Ala 275 | Leu | Arg | Ser | Leu | Asn 280 | Leu | Ser | Phe | Ala | Gly 285 | Leu | Glu | Gln |
| Val | Pro 290 | Lys | Gly | Leu | Pro | Pro 295 | Lys | Leu | Ser | Val | Leu 300 | Asp | Leu | Ser | Cys |
| Asn 305 | Lys | Leu | Ser | Arg | Glu 310 | Pro | Arg | Arg | Asp | Glu 315 | Leu | Pro | Glu | Val | Asn 320 |
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| Ser | Ala | Leu 355 | Thr | Met | Gly | Val | Ser 360 | Gly | Ala | Leu | Ala | Leu 365 | Leu | Gln | Gly |
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| Val | Ser | Ala | Thr 20 | Thr | Pro | Glu | Pro | Cys 25 | Glu | Leu | Asp | Asp | Glu 30 | Asp | Phe |
| Arg | Cys | Val 35 | Cys | Asn | Phe | Ser | Glu 40 | Pro | Gln | Pro | Asp | Trp 45 | Ser | Glu | Ala |
| Phe | Gln 50 | Сув | Val | Ser | Ala | Val 55 | Glu | Val | Glu | Ile | His 60 | Ala | Gly | Gly | Leu |

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| Asn | Phe | Ser 35 | Asp | Pro | Lys | Pro | Asp 40 | Trp | Ser | Ser | Ala | Phe 45 | Asn | Cys | Leu |
| Gly | Ala 50 | Ala | Asp | Val | Glu | Leu 55 | Tyr | Gly | Gly | Gly | Arg 60 | Ser | Leu | Glu | Tyr |
| Leu 65 | Leu | Lys | Arg | Val | Asp 70 | Thr | Glu | Ala | Asp | Leu 75 | Gly | Gln | Phe | Thr | Asp 80 |
| Ile | Ile | Lys | Ser | Leu 85 | Ser | Leu | Lys | Arg | Leu 90 | Thr | Val | Arg | Ala | Ala 95 | Arg |
| Ile | Pro | Ser | Arg 100 | Ile | Leu | Phe | Gly | Ala 105 | Leu | Arg | Val | Leu | Gly 110 | Ile | Ser |
| Gly | Leu | Gln 115 | Glu | Leu | Thr | Leu | Glu 120 | Asn | Leu | Glu | Val | Thr 125 | Gly | Thr | Ala |
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| Leu 145 | Arg | Asn | Val | Ser | Trp 150 | Ala | Thr | Arg | Asp | Ala 155 | Trp | Leu | Ala | Glu | Leu 160 |
| Gln | Gln | Trp | Leu | Lys 165 | Pro | Gly | Leu | Lys | Val 170 | Leu | Ser | Ile | Ala | Gln 175 | Ala |
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| Ser | Thr | Leu 195 | Asp | Leu | Ser | Asp | Asn 200 | Pro | Glu | Leu | Gly | Glu 205 | Arg | Gly | Leu |
| | Ser 210 | Ala | Leu | Cys | Pro | Leu 215 | Lys | Phe | Pro | Thr | Leu 220 | Gln | Val | Leu | Ala |
| Leu 225 | Arg | Asn | Ala | Gly | Met 230 | Glu | Thr | Pro | Ser | Gly 235 | Val | Cys | Ser | Ala | Leu 240 |
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| Leu | Arg | Asp | Ala 260 | Ala | Gly | Ala | Pro | Ser 265 | Cys | Asp | Trp | Pro | Ser 270 | Gln | Leu |
| Asn | Ser | Leu 275 | Asn | Leu | Ser | Phe | Thr 280 | Gly | Leu | Lys | Gln | Val 285 | Pro | Lys | Gly |
| Leu | Pro 290 | Ala | Lys | Leu | Ser | Val 295 | Leu | Asp | Leu | Ser | Tyr 300 | Asn | Arg | Leu | Asp |

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155

| 6/3 | |
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| Leu Gly Glu Arg Gly Leu Val Ala Ala Leu Cys Pro His Lys Glu Pro 210 215 220 | |
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